- Decrease of digested sludge at sewage plants by direct ozonization at activated sludge processes
  - L20 ANSWER 29 OF 121 HCA COPYRIGHT 2002 ACS
  - AN 134:197564 HCA
  - IN Leitzke, Ortwin; Bidinger, Stefan; Dzedzig, Bernd; Geiger, Markus; Heckmann, Frank; Hoelter, Heinrich; Hofer, Uwe; Linnhoff, Michael; Rauch, Bernd
  - PA Philaqua Aufbereitungstechnik G.m.b.H., Germany
  - SO Ger. Offen., 6 pp. CODEN: GWXXBX
  - DT Patent
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DE 19920269 A1 20010308 DE 1999-19920269 19990503

DE 19920269 Αl 20010308 PΙ The decrease of digested sludge at sewage plants is carried out by direct ozonization, whereby ozone is fed together with the oxygen or air flow to the activated sludge process. The ozone is appointed with 5-50 g ozone per 1 kg org. dry substance from activated sludge and per diem. The ozone is supplied directly into the activated sludge tank by ozone-resistant devices like teflon membranes, gas-priming submerged pumps, or rotary pumps, which are circulating simultaneously the sludge and the wastewater flow at the nitrification tank, after passing through the denitrification tank. Optionally, the ozone supply is carried out via a side flow, that bears a liq. and sludge flow to sewage flow ratio of 1:1 up to 1:3. The aeration and the ozonization leads to a balance between growing and destroying of microorganism in the activated sludge. Ozone is absorbed immediately by the liq. and reacts with the sludge flocs by attacking the cell walls of the microorganisms, and destroying them. Afterwards a chem. phosphate pptn. is conducted.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT